

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K9/127 A61K38/19 A61K39/39 A61P37/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PAUL A, CEVC G: "Non-invasive administration of protein antigens: transdermal immunization with bovine serum albumin in transfersomes" VACCINE RESEARCH, vol. 4, no. 3, 1995, pages 145-164, XP002107365 cited in the application abstract</p> <p>page 147, last paragraph -page 149, paragraph 1</p> <p>page 153, paragraph 2; figure 5</p> <p>page 159, paragraph 1</p> <p>page 162, last paragraph -page 163, paragraph 1</p> <p style="text-align: center;">— -/-</p>	<p>1-7, 10-16, 19-23, 25,26, 28,30, 31,33, 35,36</p>

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.*** Special categories of cited documents :**

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "A" document member of the same patent family

Date of the actual completion of the international search

19 May 2000

Date of mailing of the international search report

25/05/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Marttin, E

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PAUL A ET AL: "Transdermal immunisation with an integral membrane component, gap junction protein, by means of ultradeformable drug carriers, transfersomes" VACCINE, vol. 16, no. 2-3, 2 January 1998 (1998-01-02), page 188-195 XP004098622 cited in the application abstract</p> <p>* page 189, paragraph "Immunogen preparation" *</p> <p>page 194, column 1, line 33 -column 2, line 15</p>	1
A	<p>CEVC G: "Transfersomes, liposomes and other lipid suspensions on the skin: permeation enhancement, vesicle penetration, and transdermal drug delivery" CRITICAL REVIEWS IN THERAPEUTIC DRUG CARRIER SYSTEMS, vol. 13, no. 3-4, 1996, pages 257-388, XP002107366 page 316 -page 321</p>	1
A	<p>WO 91 01146 A (PRAXIS BIOLOG INC) 7 February 1991 (1991-02-07) page 3, line 10 -page 4, line 13 page 9, line 17-21 page 10, line 5-11 claims</p>	1-36
A	<p>WO 92 04009 A (UNIV LONDON PHARMACY) 19 March 1992 (1992-03-19) page 1, line 3-7 page 3, line 21-32 page 6-7; example 1 page 14; example 2 claims</p>	1-36
A	<p>GLENN G M ET AL: "Skin immunization made possible by cholera toxin 'letter!'" NATURE, GB, MACMILLAN JOURNALS LTD. LONDON, vol. 391, no. 6670, 26 February 1998 (1998-02-26), page 851 XP002110053 ISSN: 0028-0836 cited in the application</p>	1-36

INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 00/00597

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claims 25-35 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/EP 00/00597

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9101146 A	07-02-1991	AU 651949 B AU 6055090 A CA 2063271 A EP 0482068 A JP 4506662 T NO 920160 A US 5334379 A	11-08-1994 22-02-1991 15-01-1991 29-04-1992 19-11-1992 05-03-1992 02-08-1994
WO 9204009 A	19-03-1992	EP 0548210 A JP 6505701 T	30-06-1993 30-06-1994